

Substitute for form 1449A/PTO

**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**

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Sheet 1 of 9

Complete if Known

Application Number	10/821, 930
Filing Date	April 12, 2004
First Named Inventor	Dario Neri
Group Art Unit	1645
Examiner Name	Virginia Allen Portner
Attorney Docket Number	ELLIS-0002-P02-C01

U.S. PATENT DOCUMENTS

Examiner Initials ¹	Cite No. ¹	U.S. Patent Document		Name of Patentee or Applicant of Cited Document	Dated of Publication of Cited Document MM-DD-YYYY
		Number	Kind Code ² (if known)		
	A1	4 341 223	A	Lutz, Laurelee A	07-27-1982
	A2	5 120 830	A	SANTORO et al.	06-09-1992
	A3	5 534 254		HUSTON et al.	07-09-1996
	A4	5 576 195	A	ROBINSON et al.	11-19-1996
	A5	5 583 203	A	HEMLER et al.	12-10-1996
	A6	RE 35 500		RHODES, Buck A.	05-06-1997
	A7	5 876 691		CHESTER et al.	03-02-1999
	A8	6 083 485		LICHA et al.	07-04-2000
	A9	6 171 578	B1	DEAN et al.	01-09-2001
	A10	6 296 831		WELLER et al.	10-02-2001
	A11	6 342 326		MILTON	01-29-2002
	A12	6 342 219	B1	THORPE et al.	01-29-2002
	A13	6 630 570		LICHA et al.	10-07-2003
	A14	7 129 254		BERGER et al.	10-31-2006
	A15	7 335 775		BERGER et al.	02-26-2008

FOREIGN PATENT DOCUMENTS

Examiner Initials ¹	Cite No. ¹	Foreign Patent Document		Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	† ¹
		Office ³	Number ⁴				
	B1	EP	0396612	A1	Int. Genetic Eng.	11-14-1990	
	B2	WO	94 09817	A	City of Hope	05-11-1994	
	B3	WO	95 32001	A1	Molteni & C Dei Fratelli Alitt	11-30-1995	
	B4	EP	0719790	A2	Nihon Mediphsics Co. Ltd.	07-03-1996	
	B5	EP	0760679	A1	Molteni & C Dei Fratelli Alitt	03-12-1997	B3

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B6	WO	99 51265	A1	Univ. Oklahoma State	10-14-1999		
B7	WO	99 58570	A2	Eidgenoes Tech Hoch.	11-18-1999		
B8	WO	01 23005	A1	Schering AG	04-05-2001		B15
B9	CA	2385593	A1	Schering AG	04-05-2001		
B10	EP	1130099	A1	Crucell Holland BV	09-05-2001		
B11	WO	01 96599	A2	Philogen S.R.L.	12-20-2001		
B12	WO	03 055917	A2	Schering AG	07-10-2003		
B13	WO	03 076469	A2	Philogen S.R.L.	09-18-2003		
B14	WO	01 023005	R	Schering AG	11-13-2000		
B15	AU	779026	B2	Schering AG	01-06-2005		

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Attorney Docket Number	ELLIS-0002-P02-C01

NON PATENT LITERATURE DOCUMENTS

Examiner Initials *	Cite No.	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
	C1	ALBERTS et al., "Cells Can Be Redesigned to Produce Proteins of Any Desired Sequence." (<i>Molecular Biology of the Cell</i>), 1984, 323-324, 3.	
	C2	ARGRAVES et al., "Amino Acid Sequence of the Human Fibronectin Receptor." (<i>Journal of Cell Biology</i>), 1987, 1183-1190, 105.	
	C3	BATISTA et al., "The two membrane isoforms of human IgE assemble into functionally distinct b cell antigen receptors." (<i>The Journal of Experimental Medicine</i>), 1996-05-01, 2197-2205, 184:6.	
	C4	BAUTERS et al., "Accumulation of fetal fibronectin mRNAs after balloon denudation of rabbit arteries." (<i>Circulation</i>), 1995, 904-911, 92, pp. 904-911, 1995.	
	C5	BERNDORFF et al., "Imaging of tumor angiogenesis using 99mTc-labeled human recombinant anti-ED-B fibronectin antibody fragments." (<i>Journal of Nuclear Medicine</i>), Oct. 2006, 1707-1716, 47:10.	
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	C7	BESTAGNO et al., "Membrane Immunoglobulins Are Stabilized by Interchain Disulfide Bonds Occurring within the Extracellular Membrane-Proximal Domain." (<i>Biochemistry</i>), 2001-09-04, 10686-10692, 40:35.	
	C8	BLYTHE et al., "Benchmarking B-cell epitope prediction: Underperformance of existing methods." (<i>Protein Science</i>), 2005, 246-248, 14.	
	C9	CALDAS et al., "Humanization of the anti-CD18 antibody 6.7: an unexpected effect of a framework residue in binding to antigen." (<i>Molecular Immunology</i>), May 2003, 941-952, 39:15.	
	C10	CASSET et al., "A peptide mimetic of an anti-CD-4 monoclonal antibody by rational design." (<i>Biochemical and Biophysical Research Communications</i>), 2003, 198-205, 307.	
	C11	CASTELLANI et al., "The Fibronectin Isoform Containing the ED-B Oncofetal Domain: A Marker of Angiogenesis." (<i>International Journal of Cancer</i>), 1994-12-01, 612-618, 59:5.	
not provided	C12	CHEN et al., "Adhesion Mediated by Fibronectin's Alternatively Spliced Edb (E1B) and its neighbouring type III repeats." (<i>Exp. Cell Res.</i>), 1996-02-26, 3-19, 220:4.	
	C13	CHEN et al., "Significant structural and functional change of an antigen-binding site by a distant amino acid substitution: Proposal of a structural mechanism." (<i>Proc. Natl. Acad. Sci. USA</i>), 1989-07, 5532-5536, 86:14.	

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Sheet 4 of 9

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First Named Inventor	Dario Neri
Group Art Unit	1645
Examiner Name	Virginia Allen Portner
Attorney Docket Number	ELLIS-0002-P02-C01

C14	CHIRIVI et al., "Angiogenesis induced by alternatively spliced oncofetal fibronectin binding to endothelial cell integrin $\alpha 3 \beta 1$." (<i>American Association for Cancer Research</i>), 2001. Abstract #14.	
C15	COLMAN et al., "Effects of amino acid sequence changes on antibody-antigen interactions." (<i>Research in Immunology</i>), 1994, 33-36, 145.	
C16	DINKELBORG et al., "Molecular imaging of atherosclerosis using a technetium-99m-labeled endothelin derivative." (<i>J. Nuclear Medicine</i>), 1998, 1819-1822, 39.	
C17	EPSTEIN et al., "FDA Regulation of HIV-Related Tests and Procedures", <i>AIDS Testing: A Comprehensive Guide to Technical, Medical, Social, Legal, and Management Issues</i> , Eds. Schochetman and George, 52-61, Springer-Verlag, New York	
C18	FRECHEN-CONSTANT et al., "Alternative splicing of fibronectin is temporally and spatially regulated in the chicken embryo." (<i>Development</i>) 1989, 375-388, 106.	
C19	FRESHNEY et al., <i>Culture of Animal Cells: A Manual of Basic Technique</i> . Alan R. Liss, Inc., New York, p 4, 1983.	
C20	FOLKMAN et al., "Angiogenesis in cancer, vascular, rheumatoid, and other disease." (<i>Nature Medicine</i>), 1995, 27-30, 1.	
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C22	GEORGE et al., "Radiometal labeling of recombinant proteins by a genetically engineered minimal chelate site: Technetium-99m coordination by single-chain Fv antibody fusion proteins through a C-terminal cysteinyl peptide." (<i>Proc. Natl. Acad. Sci.</i>) Aug. 1995, 8358-8362 92:18.	
C23	GIUSTI et al., "Somatic diversification of S107 from an antiphosphocholine to an anti-DNA autoantibody is due to a single base chain in its heavy chain variable region." (<i>Proc. Natl. Acad. Sci.</i>), 1987-05, 2926-2930, 84:9.	
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C25	GOEL et al., "99m Tc-Labeled Divalent and Tetravalent CC49 Single-Chain Fvs: Novel Imaging Agents for Rapid in vivo Localization of Human Colon Carcinoma." (<i>Journal of Nuclear Medicine</i>), 2001-10, 1519-1527, 42.	
C26	GREENSPAN et al., "Defining epitopes: It's not as easy as it seems." (<i>Nature Biotechnology</i>), 1999, 936-937, 17.	
C27	GUSSOW et al., "Humanization of Monoclonal Antibodies." (<i>Methods in Enzymology</i>), 1991, 99-121, 203.	

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/Ginny Portner/

Date
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				Group Art Unit	1645
				Examiner Name	Virginia Allen Portner
Sheet	5	of	9	Attorney Docket Number	ELLIS-0002-P02-C01

	C28	HALIN et al., "Antibody-based targeting of Angiogenesis Mediates the Infarction of Solid Tumors in Mice." (<i>Cancer Research</i>), 2001-01-15, 711-716, 61.	
	C29	HASHIMOTO-UOSHIMA et al., "The Alternatively Spliced Domains EIIIB and EIIIA of Human Fibronectin Affect Cell Adhesion and Spreading." (<i>Journal of Cell Science</i>), 1997, 2271-2280, 110:18.	
	C30	HOLM et al., "Functional mapping and single-chain construction of the anti-cytokeratin 8 monoclonal antibody TS1." (<i>Mol. Immunol.</i>), 2007-02, 1075-1084, 44:6.	
	C31	ISEMURA et al., "Isolation and Characterization of Human Placenta Fibronectin." (<i>J. Biochem.</i>), 1984, 163-169, 96.	
	C32	KASPAR et al., "Fibronectin as Target for Tumor Therapy." (<i>Int. J. Cancer</i>), 2006-05-15, 1331-1339, 118:6.	
	C33	KATUGAMPOLA et al., "[¹²⁵ I]-His ⁹ Ghrelin], a novel radioligand for localizing GHS orphan receptors in human and rat tissue: up regulation of receptors with atherosclerosis." (<i>British Journal of Pharmacology</i>), 2001, 143-149, 134.	
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not provided	C35	KIM et al., "Regulation of angiogenesis in vivo by ligation of integrin $\alpha 5 \beta 1$ with the central cell-binding domain of fibronectin." (<i>Am. J. Pathol.</i>), April 2000, 1345-1362, 156:4	
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	C37	KORVER et al., "Measurement of Primary In Vivo IgM- and IgG-Antibody Response to KLH in Humans: Implications of Pre-Immune IgM Binding in Antigen-Specific ELISA." (<i>Journal of Immunological Methods</i>), 1984, 241-251, 74.	
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First Named Inventor	Dario Neri
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C43	MARTY et al., "Production of functionalized single-chain Fv antibody fragments binding to the ED-B domain of the B-isoform of fibronectin in <i>Pichia pastoris</i> ." (<i>Protein Expr Purif.</i>) Feb. 2001, 156-164, 21:1.
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C46	MENRAD et al., "ED-B fibronectin as a target for antibody-based cancer treatments." (<i>Expert Opinion Therapeutic Targets</i>), 2005, 491-500, 9:3.
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C48	NGO et al., "Computational Complexity, Protein Structure Prediction, and the Levinthal Paradox in the Protein Folding Problem," Chapter 14 of <i>The Protein Folding Problem and Tertiary Structure Prediction</i> , Birkhauser, 1994, 435-508.
C49	NOZAWA et al., "HMMC-1: A Humanized Monoclonal Antibody With Therapeutic Potential Against Mullerian Duct-Related Carcinomas." (<i>Clinical Cancer Research</i>), 2004-10-15, 7071-7078, 10.
C50	Office Action of Final Rejection filed on April 21, 2004 issued in USSN 10/321,558
C51	Office Action of Final Rejection filed on December 5, 2008 issued in USSN 10/321,558
C52	Office Action of Final Rejection filed on June 21, 2006 issued in USSN 10/336,041
C53	Office Action of Final Rejection filed on May 15, 2009 issued in USSN 11/637,810
C54	Office Action of Final Rejection filed on November 13, 2007 issued in USSN 10/321,558
C55	Office Action of Final Rejection filed on November 14, 2007 issued in USSN 10/336,041
C56	Office Action of Final Rejection filed on November 27, 2009 issued in USSN 10/336,041
C57	Office Action of Final Rejection filed on October 18, 2006 issued in USSN 10/088,866
C58	Office Action of Final Rejection filed on October 31, 2007 issued in USSN 10/966,097
C59	Office Action of Final Rejection filed on September 1, 2005 issued in USSN 10/088,866
C60	Office Action of Final Rejection filed on September 12, 2008 issued in USSN 10/088,866

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C61	Office Action of Non-Final Rejection filed on April 9, 2007 issued in USSN 10/966,097	
C62	Office Action of Non-Final Rejection filed on August 6, 2007 issued in USSN 10/088,866	
C63	Office Action of Non-Final Rejection filed on December 12, 2007 issued in USSN 11/105,475	
C64	Office Action of Non-Final Rejection filed on December 17, 2008 issued in USSN 10/966,097	
C65	Office Action of Non-Final Rejection filed on February 1, 2006 issued in USSN 10/088,866	
C66	Office Action of Non-Final Rejection filed on February 18, 2005 issued in USSN 10/088,866	
C67	Office Action of Non-Final Rejection filed on January 8, 2009 issued in USSN 10/321,558	
C68	Office Action of Non-Final Rejection filed on July 14, 2009 issued in USSN 10/321,558	
C69	Office Action of Non-Final Rejection filed on June 22, 2006 issued in USSN 10/088,866	
C70	Office Action of Non-Final Rejection filed on June 25, 2004 issued in USSN 10/321,558	
C71	Office Action of Non-Final Rejection filed on June 29, 2009 issued in USSN 10/088,866	
C72	Office Action of Non-Final Rejection filed on June 3, 2008 issued in USSN 11/105,475	
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C77	Office Action of Non-Final Rejection filed on September 22, 2005 issued in USSN 10/336,041	
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C80	PASQUALINI et al., "α-V integrins as receptors for tumor targeting by circulating ligands." (<i>Nature Biotechnology</i>), June 1997, 542-546, 15.	

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**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**

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Application Number	10/821, 930
Filing Date	April 12, 2004
First Named Inventor	Dario Neri
Group Art Unit	1645
Examiner Name	Virginia Allen Portner
Attorney Docket Number	ELLIS-0002-P02-C01

Sheet	8	of	9
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C81	POON et al., "Laser-Induced Fluorescence: Experimental Intraoperative Delineation of Tumor Resection Margins." (<i>J. Neurosurgery</i>), 1992, 679-686, 76:4.	
C82	RUDIKOFF et al., "Single amino acid substitution altering antigen-binding specificity." (<i>Proc. Natl. Acad. Sci. USA</i>), March 1982, 1979-1983, 79.	
C83	SCHIER et al., "Isolation of Picomolar Affinity Anti-c-erbB-2 Single-chain Fv by Molecular Evolution of the Complementarity Determining Regions in the Center of the Antibody Binding Site." (<i>J. Molecular Biology</i>), 1996, 551-567, 263.	
C84	Swiss-Prot accession number A2KBB9 dated 2007-02-20, Anti-ED-B scFv antibody, from PINI et al. "Design and use of a phage display library." (<i>Journal Biol. Chem.</i>) see: EMBL; AJ006111; CAA06862.1; ; mRNA.	
C85	Swiss-Prot accession number A2KBC0 dated 2007-02-20, Anti-ED-B scFv antibody, from PINI et al. "Design and use of a phage display library." (<i>Journal Biol. Chem.</i>) see: EMBL; AJ006112; CAA06863.1; ; mRNA.	
C86	Swiss-Prot accession number A2KBC2 dated 2007-02-20, Anti-ED-B scFv antibody, from PINI et al. "Design and use of a phage display library." (<i>Journal Biol. Chem.</i>) see: EMBL; AJ006114; CAA06865.1; ; mRNA.	
C87	Swiss-Prot accession number A2KBC3 dated 2007-02-20, Anti-ED-B scFv antibody, from PINI et al. "Design and use of a phage display library." (<i>Journal Biol. Chem.</i>) see: EMBL; AJ006115; CAA06866.1; ; mRNA.	
C88	Swiss-Prot accession number A2KBC1 dated 2007-02-20, Anti-ED-B scFv antibody, from PINI et al. "Design and use of a phage display library." (<i>Journal Biol. Chem.</i>) see: EMBL; AJ006113; CAA06864.2; ; mRNA.	
C89	TAIT et al., "Development and Characterization of Annexin V Mutants with Endogenous Chelation Sites for Tc." (<i>Bioconjugate Chem.</i>), 2000, 918-925, 11.	
C90	TAKADA et al., "The Primary Structure of the VLA-2/Collagen Receptor Alpha2 Subunit (Platelet GPIA): Homology to Other Integrins and the Presence of a Possible Collagen-Binding Domain." (<i>Journal of Cell Biology</i>), 1989-07-01, 397-407, 109:1.	
C91	U.S. Patent Application No. 10/088,866 filed July 2, 2002.	
C92	U.S. Patent Application No. 10/204,581 filed March 10, 2003 and published on January 22, 2004 under Publication No. US-2004-0013640-A1.	
C93	U.S. Patent Application No. 10/321,558 filed December 18, 2002 and published September 18, 2003 under Publication No. US-2003-0176663-A1.	
C94	U.S. Patent Application No. 10/336,041 filed January 3, 2003 and published on January 1, 2004 under Publication No. US-2004-0001790-A1.	
C95	U.S. Patent Application No. 10/937,882 filed September 10, 2004 and published on April 7, 2005 under Publication No. US-2005-0074401-A1.	
C96	U.S. Patent Application No. 10/966,097 filed October 18, 2004 and published on May 26, 2005 under Publication No. US-2005-0112690-A1.	

Examiner
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/Ginny Portner/

Date
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Sheet 9 of 9

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Filing Date	April 12, 2004
First Named Inventor	Dario Neri
Group Art Unit	1645
Examiner Name	Virginia Allen Portner
Attorney Docket Number	ELLIS-0002-P02-C01

C97	U.S. Patent Application No. 11/105,475 filed April 14, 2005 and published on October 6, 2005 under Publication No. US-2005-0221434-A1.	
C98	U.S. Patent Application No. 11/249,296 filed October 14, 2005 and published on June 1, 2006 under Publication No. US-2006-0115428-A1.	
C99	U.S. Patent Application No. 11/637,810 filed December 13, 2006 and published August 16, 2007 under Publication No. US-2007-0189963-A1.	
C100	VAJDOS et al., "Comprehensive functional maps of the antigen-binding site of an anti-ErbB2 antibody obtained with shotgun scanning mutagenesis." (<i>Journal of Molecular Biology</i>), 2002, 415-428, 320.	
C101	VANGELISTA et al., "A minimal receptor Ig chimera of human FcγRI α-chain efficiently binds secretory and member IgE." (<i>Protein Engineering</i>), 2002-01, 51-57, 15:1.	
C102	WAGNER et al., "Differentiation of Polymorphonuclear Neutrophils in Patients with Systemic Infections and Chronic Inflammatory Diseases: Evidence of Prolonged Life Span and de novo Synthesis of Fibronectin." (<i>Journal of Molecular Medicine</i>), 2000, 337-345, 78:6.	
C103	WEIR et al., "An Immunoglobulin G1 Monoclonal Antibody Highly Specific to the Wall of Cryptosporidium Oocysts." (<i>Clinical and Diagnostic Laboratory Immunology</i>), Sept. 2000, 745-750, 7:5.	
C104	WILSON et al., "Simvastatin Preserves the Structure of Coronary Adventitial Vasa Vasorum in Experimental Hypercholesterolemia Independent of Lipid Lowering." (<i>Circulation</i>), 2002-01-29 415-418, 105:4.	
C105	WINKLER et al., "Changing the Antigen Binding Specificity by Single Point Mutations of an Anti-p24 (HIV-1) Antibody." (<i>J. Immun.</i>), 2000, 4505-4514, 265.	
C106	WU et al., "High-resolution microPET imaging of carcino-embryonic antigen-positive xenografts by using a copper-64-labeled engineered antibody fragment." (<i>National Academy of Science</i>), 2000-07-18, 8495-8500, 97:15.	
C107	YANG et al., "CDR Walking Mutagenesis for the Affinity Maturation of a Potent Human Anti-HIV-1 Antibody into the Picomolar Range." (<i>Journal of Molecular Biology</i>), 1995, 392-403, 254.	
C108	ZALUTSKY et al., "Astatine-211-labeled radiotherapeutics: An emerging approach to targeted alpha-particle radiotherapy." (<i>Current Pharmaceutical Design</i>), Sept. 2000, 1433-1455, 6.	
C109	ZHANG et al., "Non-invasive imaging of atherosclerotic plaque macrophage in a rabbit model with F-18 FDG PET: a histopathological correlation." (<i>BMC Nuclear Medicine</i>), 2006, 1-7, 25.	

Examiner Signature	/Ginny Portner/	Date Considered	06/30/2010
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